

# Storm Data

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration ENVIRONMENTAL DATA SERVICE

#### SEPTEMBER

1970

Volume 12

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Asheville, N.C.

1970

																			SEPTEMBER 1970
		CAL	РАТН	E		OF SONS	ESTIM. DAM	ATED†				TV:	АТН	H	NO. PER		ESTIM DAM		
PLACE		TIME - LOCAL STANDAND	7.5	WIDTH OF PATH (YARDS)					CHARACTER			TIME - LOCAI STANDARD	LENGTH UF PATH (MILES)	WIDTH OF PATH (YARDS)					CHARACTER
, race	I		표를		e	e	ERT	<u>بر</u> ا	OF STORM	PLACE		- V	THE	10F		æ	F -		OF STORM
1	DATE	E A F	LENGTH OF (MILES)	5	KILLED	INJURED	PROPERTY	CROPS			DATE	TAN	25	E C	KILLED	INJURED	PROPERTY	CRr.75	
				<u></u>		لــــا			<u> </u>		Δ	H 102		*	لـــــا	=	L		
Alabama			None	repor	ted					Arkansas (continued							l		
Alaska									i		9130	P.M. Al	EN CO	INTY:	150 f 18 w1	pot C ndows	dameg	wor to ed in	ppled around town.
Peter Dahl Slough 15 ml. east of	13	p.m.			0	0	0,1	0	Waterspout			l .					i .		unroofed,
Cordova		terspout heavy rai				Liiuu	or, 11	Rucara	•		wine	ows broke	n and	conside	rable	dama	ge to	cott <b>o</b> n	and soybeans.
Arizona		ł									MON	TTE, CRAI	GHEAD	COUNTY	Lun	ber C	ompany	damag	ed.
f					ا ا		_				LEAG	HVILLE, M	ISSISS	IPPI CO	UNTY:	Gra	in ele	vator	lost and wide-
	4,5	-	-	•	0	ľ	6	Li.	Rain		ı '	egannib ba			1	1	1		
of State	Trop	ical stor	Norma	, locat	ed in	the	Pacif	c Oce	n below Baja		VIC	ORIA, MIS	SISSIP	PI COUN	Y:	One 1	uildir Shedy	g dest	royed. Also in Mississippi
	Cali	fornia, in	itiat	d a flo	w of	mois	trop	cal a	r over the Gulf afternoon of the	ļ		ty.	report	BG AL F		a.iu	Chady		711 11202202Ppx
	1st.	This sur	ge of	moistur	e ent	tered	the S	tate of	n the 2nd, over-	Oden,	17	2:20 p.	7	?		i i	3	=	Tornado
	cays	⊾. ∪n the	ונודוסויו	ig of th	18 44	ac	DUAGLU	int fl	bw of air developed!	Montgomery County	Tor	ado touch	ed dow	n in op	on co	untr	and a	pparer	tly damaged
	zout	hwestward	to ne	r Sasal	e. :	his	produce	d hea	on area and south- y precipitation		onl	mral eno	Roo	s torn	from	smal	l out	buildi	ngs and one cofing was
	alon Tucs	g and east on and the	of the	e Baboo	uiva on t	i Mo	intain Ay. T	and i	orthward to		fou	d several	miles	distan	tin	hite	Town	Commun	ity.
	rapi	# runoff t	hat w	shed ou	t ro	ida a	d seve	ral b	idges near Tucson winds developed	California	ļ	ĺ					ļ		
1	over	much of	rizon	causir	g ho	vy o	ograpi	ic pr	cipitation, with	Oakland-Berkeley	22				0	2	5	0	Fire
	Solt.	hern part	of the	State.	Pre	cipi	nation	along	and to the south		the	spread of	fire	t in the	e Oak.	Land-	herkel	ay հու	ies favored Ls. More than
ļ	the	pe nogollo Bradshaw P	n Him ountai	ne in i	avapı	ty an	nd alo	ng the	south slopes of cially heavy on		50	homes wer	dest	oyed o	dam	ged.	Two	Cireme	were injured.
	the Syca	5th. Seve	re flo	oding i	n Chi	dame	her C	eek, '	Conto Creek and bridges and pron-	Southern California	25-	   Enman 4		h	0	20	8	0	Fire
	erty Sect	along the	se tr	butarie	s. I	ainf	11 wa	also	heavy in Use		to	reate an	xplos	ive fir	e pot	bntia	ф. Mc	re tha	nd low humidities h 500,000 acres
	wate	s. Floor	dana	e in ot	her i	arts	of Ha	icopa	colpitation, with arriers in the and to the south scopes of coially heavy on fonto Creek and bridges and propheavy in the damaged by flood-County was seawampa River as. Flooding also show to the also solow to the	· .	MBT	burned of	ver in	Los An	reles	lVел	tura.	Kern.	Drange, San Diego, e destroyed, along t least four
	Over	lowed it	bank:	and fl	code	res	where denti	the H	ssayampa River		with	more than	500	ther s	ruct	res,	incl	ding a	t least four
	Nava	to Reserva	tion.	Agricu	ltura	11 da	ate w	s rep	orted to rance				11.4			"			
	1mpr	bvements :	uch as	fences	. we]	ils. si	ocktar	ka. ar	d corrats. Loss	Colorado	_	F-200.			Ì				
	prec	ipitation	was 1	mited m	ostly	to	he mot	ntain	s. By the 6th, in the south- that date was	Montezuma County	A 50	5:30Pm all torns:	o desi	royed t	uild:	ngs	and da	naged	Tornado Truit trees on a Yon. Observers
	ligh	t relative	to t	at occu	rring	on	he pre	vious	two days.		fare	about 12 rted seein	miles g fun	WSW of mel clos	Corte	z, i	n HcEl bwn.	no Can	on. Observers
Scottsdale	. 5	4:00 р.	1-1/2	100	0	0	Į.	0	Tornado	Southwestern Colorado	5-6	1	ĺ				6		Heavy rain
	Funn	l cloud t	ouche	ground	abou	t 1/2	mile	west o	f Scottsdale Road		Rear	y rains fo	om ar	und B	r 9A	101	he fi	th to	the early morning er an area in- northward into
	movi:	ng east. Inued fart	It cro	ssed Sc	otts	ale I	load at	Fill	f Scottsdale Road fore Street and and trees were		clu	ting the	en Ju	n Rive	Bas	n, a	nd ext	ending	northward into
	prom	down and	a num	ber of	roof:	were	damag	ed al	ng the path.		read	polores at hes of the	Rio	iison R Grande	ver	Basi Basi	and We	esstwa t soil	d into the upper conditions from run-off. Poads,
Arkansas		}	į	1							pre	ious rain: izes. mount	were	conduct	ive to	o rap	d and	heavy	run-off. Poads,
Alma,	4	12:15 a.	2	500		1		ĺ			mucl	private p	roper	y rece:	tved :	eavy	damag	e. Ra	infall totals for hes in many
Crawford County	[		ł	1 *			4		Wind		loca	dities.	1	01 10.	, Ex.	8600	1 4 01	) Inc	les in many
	tra	veled 125	first miles	touchdo eastwar	un po	int c	fate le hos	rbuler es bac	t storm that				None	repor	ted			1	
	1 p	oultry hou	down.	pletely Minor	dest	royed	and r	umerou	t storm that ly damaged. s roofs and woman riding led on car.	Connecticut				1.000.					
ŀ	in o	ear betwee	n Alma	and Va	n Bur	en w	en tre	e top;	led on car. O and Route	Delaware								-	
	71	coutheast	ard fo	r appro	kimat	oly 2	miles	·	o and noute	State	22-							ļ	High temperatures
Booneville and north-	4	Early AM	7	7			4		Wind			j	ļ				<u> </u>		·
ern Logan County	D				L .		_				and	higher, or	carre	on as	niny	as s	Sapte	mber, secuti	reaching 90° F. ye daye; come uring this period.
	urgi	bash to la	BT 0AS	L OI DO	pnevi	LLIE.	Also.	minor	uction on roof, TV		14 14	were emerke	ncy d	rea da	s in	the the	upper	90's d	ring this period. nusual demand for
<u> </u>	ante	nna and w	indow	Hamage :	in no	irth s	art of	count	<b>y</b> .		ale	tricity.							
Clarksville, Johnson County	4	Early AM	7	?			3		Wind	State	27				0	ò	3	0	Wind
	Ext	nsive dam	age (m	ostly r	of)	to no	w high	schoo	1 building		Str	ng guaty	inda	ssocia	ed w	th a	cold	ront	passage caused
[	und	r constru	etion.		·						BCA	tered min	r dam	ge.					
Russellville, Pope County	4	12:45 a.	3-4	50 100		5	5		Tornado	Florida			-						
- Spo Goundy	ارا									12 NNW Key West	02	12:24p							Waterspout
	just	north of	Russe	llville	On	e new	home	dostro	ng Highway 7 yed and	20 NW Key West	02	5:00p			ĺ				Funnel aloft
· · ·	appr	oximately	60 se	crely	amag	ed.	Major	path o	f tornado in o Community in	9 SE Miani	03	12:17p		ŀ	-	į.		-	Waterspout
	Same	area. A	way fr	om torn	do p	hth.	damage	Was r	eported at Dover	SE Ft. Lauderdale	04	1.0:01a						1	•
	A701	ent wind	and ra	in shor	LL: 4	Fter i	were b the to	rocked rnado	by toppled trees, struck Atkins,	ne tre Pandaldara	"								Funnel aloft
<u> </u>	rope	County,	ind di	minor	iana	ge.			- '	10 NNE Key West	04	abt 10:30a				ļ .			Funnel aloft
Morrilton, Conway County	4	12:50 a.	1	î	.	1	4		Wind				Sever	1 sigh:	Lings		· .		
	Man	hurt as t	ailer	home d	moli.	shed	by Win	i. Tr	ses and utility	12 N Patricia Target 22 WNW Key West	04	1:30p							Waterspout
	boyd	s down ale go in dow	ng Hi	thway 9	nor	th of	Horri	lton.	Other minor										
Conway,	4	1:30 a.	7	. ?			3		Wind	1 E Key Largo 20 SSW Homestead	05	6:07a							Waterspout
Faulkner County		٠٠, ٥٠	·			i l	•	-		8 SSE Palu Beach	05	9:47a							Funnel aloft
									y southeast of	Palm County	~								
	Com	ay and di	етов і	miner	ree	und H		emage	in Conway.	20 SW Key West	05	9145a					1		Waterspout
Southeast Greene, Northwest Craighead	4	3:30 p. to	35	1-1/2 miles			4	5	Wind and hail	25 SW Tampa	06	9:25a	٠.						Waterspouts (2)
and : . th Mississi-	-	5:00 p.											Water	pout 1	fred	and	zoveč	inland	as a funcel cloud
ppi Counties	. !	المدالسية	tand	net) sto	- h1	t a 3	-count	y area	doing the	Hiami	06	1:33p			0	1	0	0	Lightning
-		owing dam																1 .	

1		CAL	РАТН	Ħ	NO. PEKS	OF ONS	ESTIM/ DAM					CAL	РАТН	FE	NO. PER		ESTIM/ DAM		CV
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	מורנם	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
Florida (continued)			Firem	m hit	by 11	ghtni	ıg whi	le wor	king at airport,	Hawaii		7:00 a 8:19 a.			0	0	0	0	Funnel cloud
15 WNW Palm Beach Palm County	06	2:40p	injui	res our		s			Funnel aloft		SOUL	hesat of	central	Honolu	ilu (i	ta imul	ci) an	l exte	miles east- nding mid-way to cout 10,000 feet
6 SE Tallshassee	05	5150p							Funnel aloft	Idaho Wendell, Gooding County	1	Afternoon		- <b>-</b>	٥	0	3		Lightning
St. Petersburg Hillsboro County	07	noon			2	22	0	0	Lightning		Two	calves we fire was	re kil exting	led by uished	light befor	ning e ext	and a eveive	house dama;	was set on fire. e was done.
			footba	ll play erious] otball	ers, ly. A	killi 11 38 acre	ng two plays ss fro	and rs ga m Gib	of High School injuring 22,others, four coaches on s Comprehensive	Oneida County, (33 mi. ENE of Malad)	Go1	4:00 p. f ball six ulated are	e hail	damage	d cro	O psar	3 d buil	3 dings	Hail in sparsely
			High S		ere x	поске	a oit	their	feet by the	McCammon Area, Bonneville County	2	Afternoon			0	0	4	0	Windstorm
Leesburg Lake County	10	afterno			0	0	4	0	Wind Damage		tra	sured 16 f	eet ar	ound ar	nd for mabir	r ott	ers w	IS Det	e trees. One rly as large, igger and plow
			awning	crash	ed due	to t	eight	of ra	e when a heavy in and wind	Challis, Custer	2	demolish 5:00 p.	ļ .	1	0		. 3	0	Lightning
10 E Palm Beach	11	9:02a							Funnel aloft	County	Fou	horses l	: :111ed	by ligh	! itning				
Palm County  10 W Venice	13	4:05p							Waterspout	Idaho Falls, Bonneville County	17 W1,	Afternoor	,	!		l ized		O red s	Wind hool teacher.
Sarasota County  1 N Rickenbacker Causeway 5 ESE Miami	14	12:05p							Funnel aloft	Illinois Sangamon County	7	7:35p	İ		!				Funnel cloud by State Po
6 S Key West	14	. 5:00p							Funnel aloft	Jo Daviess County	9	6:40p	h	70	0	0	2	0	Tornado
Lakeland Polk County	16	afterno		struck	o by 1	1 Ightn	O ing no	C Ber	Lightning Lously injured.		Tor tre and	damage continu	befo	hollo e lif wisc	ing ing	om f jus	iver t sou NWSO,	causi th of DBQ.	ng considera Ill-Wis lin
12 E Punta Gorda Charlotte County	18	12:29p							Funnel sloft	Cook County	bna	late af	a bar	nd 3 c	1 ther	3 s ha	o i mir	or ir	Lightning juries when
Daytona	21	10:05a							Funnel sloft	Lee County	str	early a	ightn	ing or	901	E CO	urse •4	in A	lington Heig Lightning, r
S W Pensacola	23	2:25p	-					-	Waterapouts (2)	bee councy	Lia	htning d	datro	yed a	barr	and	cont	ents	and caused f rain cause
2 S Magnolia Field 28 W Fensacola	24	11:14a							Funnel aloft	Adams County	23	al flood	ing w	ith so	ne p	Оре	rty .	hd c	op damage. Tornado and
3 SW Key Biscayne 8 SE Miami	24	6:25p							Waterspouts (3)	, adding obtaining	For	3:30p	ed NN	Bafte	  -  -	ppir	g ro	f fr	heavy rain m a factory
Cocos Brevard County	25	morning	\$20,0		0 age wh	O sen ev	angel:	O Let's	Wind Damage tent was destroyed		ter mir	plem at track or outbu	NE ed with ildir	de of damage	Quir rep Saraq	orte e de	t 2:	tree: /ed a:	Left intermi , roofs, and other out- . Family se
18 S Palm Beach Palm County	29	9:45a	by w1						Funnel aloft		Filtr	has lam	took	Shelte	er 11	11 DA#	i emeni		nnel also si indicated t in 24-hours
15 SE Palm Beach Palm County	30	9100a							Waterspout		cau		flo	oding.	. W	sro,	STL.	-	
25 E Palm Beach Palm County	30	12:47p							Waterapout	Indiana Huntingburg and Brets ville (Dubois County		E.S.T. About 3:09p.	ŧ	-4	0	4	4	0	Tornado
15 N Key West	30	I.:48p	Sever	al sigi	heine	of the	to wate	e Yanou	Waterspouts (2)		des	troyed in	Huntin an of	gburg.	Some	tree	s were	also	l restaurant wa blown down. Ab ar Bretzville f
11 WSW Miami	30	4:58p		-					Funnel aloft (2)	Borden, near		4:30p.	east.	Narrow	,   ,	0	4	0	Tornado
Georgia			of Mi							(Clark County)	Rot	d 60 between	ch Box	den and	l Peki	n, to	uched	down i	st southwest of
Northeast	2=3	1			0	1	Į,	0		Marion Airport	1	12:30p.	roving	two far	m bui	1 pi u 8	s and	damagi	ng six dwelling Funnel
	dur	ing the I	ate af	ternoon	n and in s d	eveni. owned	ng of	the 21	zia communities ni and 3rd. Trees lamaged in Banks,	(Grant County)		8:00p.	Short	Narrou	, 0	1	3	0	Wind
	sta	eirt, Francisco vited by 1 Thers wer	1ghtni	ng. Tw	res or	idenc	es wer	re des	Reveral fires were troyed and at losst	(St. Joseph County)	Or	ne person v	יינ פו	jured, wi	nen ho	use t	raile:	Was o	lomolished.
Loundes County	6	4:15 p	1	1	0	1	h	0		Iowa Pocahontas, Pocahontas	-	9 1130	.				4	4	Hailstorm
	blo	wa over i ide were	n tho	Hahira d by a	area.	A s	tbrage	shed Large	echan trees were and farm machinery tree damaged a ensively by another	Butler to Winne- shiek Counties		9 2:30 Scattered		dama	ge•		5	5	Windstorms
Patterson	upr 20	ooted tre	8		1	0	0	0		4E Greene, Butle		9 2:42 Tornado	g 3 moved	20 NE 30	o mph				Tornado Highline big
		ieros Cou Li noar h			s  kil:		y ligh	tning	while working in a	Plainfield,	-	balls of 9 3:00	1 3	15	0		4	4	Tornado
Brunswick, near	22	7:33 :							Waterspout	Bremer County Sumner, Bremer	- (	Tornado 9 3:15	first	sight	ed S	outh	of P	lainf:	leld, moved N Windstorm
	Rep	orted 14	miles	northea	st of	Brun	sirick	A11 POI	<sup>76</sup> )	County	1	.				-		1	1

	1	CAL	РАТН	Ę	NO. PERS		ESTIMA DAMA					OCAL	PATH	Ħ,	NO. PERS		ESTIMA DAHA		CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PA (; AROS)	KILLED	NJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENCTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
Iowa (continued) 4NW West Union, Fayette County	9	3:30 p							Funnel	Kansas (continued)	intur	e was rer ed by lig	htnins	itm es	es e	st of	St. H	arys i	me person was n the after-
Ossian, Winne- shiek County	9	4:00 p					5		Windstorm		noon.	Two peo Funnels 55 p.r 4	aloft	were r	coort	cd at	10110	w8:	in the after- it Kansas City
SE Poweshiek County	9 Dan	4:30 p	m Mor	to zuma	to	neau	5 Iowa	Cour	Windstorm ty line.	Clay, Marshall Counties		early a.m.			0	0	h	0	Lightning
Dyersville, Dubuque County	9	4:40 1		Hundr			5 ees	4 uproc	Windstorm ted.		! F		orted	3 miles					near Oakhill.
Earlville, Dela- ware County	9	4155 1	1			İ			Funnels (2)	Labotte, Linn, Neosho Counties		5:00- 5:30 p.			0	0	3		Wind, heil
Williamsburg, lowa County	9	5:00		! 			4		Windstorm		Count Thay		demag ten b	also c	ccur	ed W	est of	Parso	is and near
Dyersville, Dubuque County	9	5:00							Funne1	Hortheast one-fourth	22	oftn of Clinight of 21-22			0	1	L L	0	Lightning, hail
Dubuque, Dubuque County	9 Wi	5:25 nd gust	a 60	go 80 r	r.p.	16 Los	7 ses 1	5 eport	Windstorm ed near six		III CH	tning dam inson. Cl	ky, an	i Salin	ė Çou	hties	. A ra	BAN ITE	avenworth, injured by
Dubuque, Dubuque	9	11ion d 5:25	1						Funnels (2)		inch	es diamot	or fel	auring Lat Be	ryto	nat	1:45 p	.¤.	o about 2½
County Lee & Des Moines	9	6:51	P	a a t D	domai	3	5 a Bu	5 lina	Windstorm	Southeast portion	22	aftn			0	0	L	0	Rain, wind, lightning
Counties	ir	juries 2:00	at Bu	lingt	on.	Wind	s es	imat	d to 75 mph.		dama	damage of ge to the rted at E	City	Hall at	Coff	*yvil	le. I	p.m. a ightni	nd rain caused ng danage Pas
Waucoma, Fayette County	25	2100								East central portion	22-				0	0	L	5	Rain
Kansas Rush County	3	5:25-	10	300	0	٥	4	0	Tornado		cent	ral Kensa	s cau	sed node	rate	11000	ting al	long Pe	parts of east ttawatomie
	Torn	6:15 p. ado, mov	ing so	itheast,	was	on th	e grou	nd 8	iles west of		down	stream. lities.	Flash Consid	lloodir derable	g va:	also	repor	ted in tomler	Osawatomie several is were in-
Rush, Russell	LaCr 3	aftn-ev			0	a.	4	L	Hail funnel aloft	Vontusku	undi	ted, caus	ing d	mage to	unha	rves'	led cro	5.	
Counties	ever	ding. A	1unne L	STOLE	vas re	borre	h nen	he L	Crosse area in the Crosse and Great	Kentucky	4	Night			0	0	4	0	Lightning
Ellsworth County	1	about 5	ļ	n, mov	0 rug ac	1	0	0	lightning			ire appar	ently	et by	light	ing	destro	pred a	2-story house nea
+ •	Ligi	3-4 coning in	jured	a man a	bout 1	adni	nt at	lolyr	opd.	Blue Grass	7 In	a.m.	fort :	area of	O	o in (	? Dunty	about	Rain 4 inches of rain
Southeast portion	3-4	aftn of 3; night of 3-4			0	0	6	5	Wind, hail, lightning, rain		Va:	reported	ito b	minor	d fle	popoca	street	i II	the Jumbe area of reported to have
									ell at Coffeyville sured 17% inches ghed about 1 3/8	Central	7				0	0	14	?	Lightning, hail, wind, and rain
	pou	nda. An ossati	otter ts wid	agged, es poin	rough t T	he la	ter s	tone !	al several spikes		an	its cont	dnts.	In Mar	rion (	Count	vi late	elin ti	destroyed a hous
	wer Mor	e common	at Co. County	Consi	e and	le cr	catter op dan	ep oti	ches diameter her spots in on hail and wind hon, and Woodson		cr 5	ops, accor inches of	rding gain.	In Ta	repo: ylor (	rts; Count	ione f	he afti	licars dringe to reported as much ernoon fire probab
	Cou	nties;ha d, rain,	4 4 1 5 4		. 64 + 1	- Натл	oted to	ient.v=	nine mobile homes.		da	aged a h	ouse.	destroy				1	everal cattle, and
Northeast one-fourth	ı <b>;</b> 3-1	eve of	 زز		0	0	5	Į.	Wind, hail, lightning	Central			a abou					r Cou	Hail, wind, rain
north central portion		3-1	2/1 17	ch di am	eter (	cur	ed at	Manha	ttan sbout 9:25		Bu	n neavy a rdick are iddings.	al win	geman b	ed so	nd ro	ofe, a	nà tur	ylor County in the ned over some smal nd hail.
	p.i	light	ning d nawnee,	and At	as rej	n Cour	ties.	wind	damage occurred	Metcalfe County	8	Evening	1		0	3	0	1	Lightning
į	so da		ird to he Lea	Donipha venwort	n and h are				. Total property d in the Kansas	73		o requiri							injured by lightni
Norton County	6	5:30- 5:45 p	3/	,		0	3	0	Tornado	Blue Grass		Night Washingto	on Com	ntr vie				?	Lightning, wind and rain was heavy rain
			- 1	ortheast	t, to	ched	down i	about :	mile southeast		Wit	d lightni	nk.	In Bourt	xoh Cα	ouhty	d barr	was (	lestroyed by a fir y some property aused flash floodi
Western portion	5	late af			0	0	4	0	Wind	Metcalfe County	1:01	or enter	d son	e busine	ess b	o Tilgi	ngs and	homes	Rain
	St	Peter (	Graham	ed in the	he Vi	cinit;	of M	inneol	a, Pratt, Norton,	Coccurre water	Str	cine the c	lab. w	arer acc	were 1	repor	ted to	have !	been flooded 3 time
Kontgomery County	we:	9:00 p			0	0	Į,	0	Lightning		in a t	otal of	6,45	onu, we inches (	ATTER of rai	SERV.	ICE coo	peration the day	ive observer repor y. In the Casey I with creeks out o
		1	- 1	conten		-	1.	i i	es east of Caney.	Metcalfe County	bai	ats and wa	iter o	ver bri	ges;	some 2	damag	to c	Tornado
Southern one-third; eastern one-third	9-	20 aftn o 9, nig of 9-1	ght]		0	3	5	0	Wind, lightning, 2 funnels aloft	receive county		spoke-like	e clou	d vas of	baerv	ed by	at le	ast tw	witnesses to mov
1	}	1	1	}		١	}	1		1)	on	ce 10 feet	þff	the gro	und a	nd th	en 20	feet o	ff the ground, tu

<del></del>						or T.		T			_1				NO.	OF.	ESTIMA	TED!	
		CAL	PATH	Ę	NO. PERS		ESTIMA DAMA					CAL	PATH	Ę_	PER		DANU		CHARACTER
PLACE	DATE	TINE - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YAROS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE .	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF FTH (YARDS)	מורנם	INJURED	PROPERTY	CROPS	OF STORM
Kentucky (continued	i)			<u>-</u>		1				Maryland (continued		i							Wind
	ing it	over an	d then	slamm There	ing it ere	to t	he gr	ound so jurios	) feet distant from s, and the mobile man who said his	Chesapeake Bay area	27	Late Morning	- 1		1	0	4	0	Wind
	house a	shook ah	d souh	ded lik	ce a þ	irva խ	ntil 🖡	ne oper	ned the front door.		Stra	ng guaty	inds a dan	nd heav	ry su	ill#	nssoci in the	ted w	th a marked cold
	treas v	ere dob	med.	(There	WAS S	SOME B	catte	cd with	rea and several  nd demage along a  the northeast		bna	50 ploasu rted 55 c	e boat aft a	s caps: sisted	zed; On	the man	Coast died	uard ither	ind Mirine Police by drowning or by
	corner	an: in	o linri	Count	at	about	the s	me ti	nu).		hone Hago	t attack t	hen h	s fish: unately	ng b	bat c l mís	npaize sing p	in the	e heavy swells off were found sate.
Barren County	1 1	:45 a.			0	0	4	0	Lightning		the !	H-NY and	ind p	cking t	p cl	buds	of wat	r from	ista to 70 mpl from a a nearby creek seen before. More
	A hora	ire by	in the ightni	Nobob ing.	COURT	inity	ncar	Summer	Shade, apparently		inla	nd, great	cloud	of du	it an	å dir	t ware	lifte	from the powder-
Pulaski County	18	1			0	0	4	0	Lightning	1	werd	downed.	Tho f	nal dar	of .	àn ou	tdgor	air a	Easton was can- attered the debris
	Lightn one ho	ing was	report	ed to	Doger Doger	strudi a popt	tuc ion a	houses E the	; fire destroyed other house.		in c	ll direct	. впо						
Jefferson County	1 1	Eternoon	- 1		0	2	0		Lightning	Massachusetts Northeastern	4	6-7 PM			0	0	4	0	Lightning, wind
	Two set	n were two por	truck ar mov	by ligh	tnin	while relter	e in	un ope	n field attempting		Sca	tered lie	htnine	damage	to	omes	and u	111ti	s. Wind felled
East	22 A	comest2	,		0	a	4	0	Lightning, wind		tre 40%	from ligh	ausing tning,	SCALLE 60% w	red i	tili	y fail	ures.	Damage about
	Fire a	pparent] hings is	y set	by lig	tnin irea	dest	royed	a mob	lle home, and In Morgan County,	State	25	Evening			0	0	4	0	Lightning, rain
	wind b	lew a b	rn do	nı.					,		I1g	htning rec	e muny	direct	hit	on	Huildi:	ge and	utility lines.
Oldham County	22 6	:30 p.m			0	°	2	7	Wind, rain, 1:ghtning		mos des	with small	11 dan n Spri	age. I	in Sa t, st	lem s rike s	chura) Imcak	ateer	le was partially traffic control
	A funn	el clou	sas	reporte	d noa	r Lac	rango,	but 1	ater reports and		wit	ipment. I hail to from ligh	B/4th	inch di	lbodi Lemet	ng re er in	ported some	in Mor reas.	son and Palmer, Damage nearly
	funcel stores	; indic	hted w	re str	aight t to	nn es	winds timate	A8800	.p.h. The National	Barnstable-	811	Tron Tig	Litting,						
	Weathe	r Servi	te Cou	perativ	e Obs	prver	at L	Grange	reported a	Hyannis area	29	Early PH			0	0	3	0	Hail, lightnirg, rain
	heavy	lightni	ng. 1.	g:"Seve 74 (Inc	hes)	rell	in 🕌	our ti	cary rain and en light drizzle. ned for 15 or 20 s then hit sharply										sized stones up to
	CULIO	t the we	Bt-nor	LUNESI.	INL	DE.Zaa	ULU 4	arr on	made, and middles		Lig	htning dar	eged a	shed :	ih De	nnisp	drt. 1	eavy 1	affic conditions. ain caused local ashing and flood-
	of wat	er were	drain	ed from	elus o	t bou	ls in 5	ס בניט	throoms." Lightning, rain,		ing	}					, ,,,		
Scott County	1 1	â.D.			1				wind	Michigan							١.		
- T	Fires before	apparen a dawn i	lly se	by li	elitni to-m s	ng de	htroye damage	esti:	parms and contents rated at \$65,000.	Van Buren and Berrien Counties	10	12,30	UNI.		0	0	4	°	Wind
	Heavy	rains & t seemni	A DIS	aper of	Geor	Cratov	n bus	iness 1	d to have caused hildings and some ber of roofs,	and portions of Northern Michigan				l				-ch	toppled trees,
	especi	ially fa	in bui	dings.	•						bre	ke wind	AR BI	ı dam	aģed	pow	er li:	ies.	At Paw Paw, D-foot section
Louisiana	1. 1.	r. 40=							Funnel Cloud		of	roof of	the 1	Paw Par	w Hi	gh S	chool,	lift	ed some sky- sge, and slight-
Plaquemines Pariab		5:40p to eight	miles	south	de Vi	lelet.			Poster Cross		ly	powed a	wall.	. In	apol	tion	to ti	nks mo	ore localized Lake Superior
Lake Porgne	ll 2	2;20p 15 mile	east	of IA	efro	112	bort,	ier o	Waterspout		Car	used win	3 908	b of	46 t	o  60	aph 1	hich	caused damage
Cosstal Parishes	1 1	112 day			0	0	,	7	Tropical Storm		wi	ndows, d	anage	dock	B 6	tc.,	thro	hou	many areas of
	Vinda	briefly	minim	1 521	fore	298 92	tions	or 00	"FELICE"	Under Peningula	1	8 am t		1	0		1 4	0	Thunderstorms,
	OAEUR.	ities, s	light	for to	ropio: Ind da	ni sto Lingo,	tida	or r	2.5 inches). No iver flooding re-	Upper Peninsula and Central Lower	1	Midnig				"			Wind, Lightnin
North Bolom Borre	ported	1. 12:00 no					,		Lightning	Hichigan									ere accompanied
Fast Baton Rouge Farish	โรบ เ		hrown	15 fee	fr	od aut	p and	lost	consciousness when		da	mage to	downt	טלו מייס	114	ngs,	and	toppl	ed trees. At 3 houses, 1 barn
	1.896	THE BUT		, gr	1000			1			we	re start	⊌a by	light	ning	1. A	, kitc	hen o	f a two-story
Maine Livermore Falls,		2_i tar		1					Wind light-i-s		đe	stroyed	by fi wind	re bel	1676	d st	arted into	by 1	ightning. At r lines. Near
Konmouth area	1 1	3-4 PM ersousl)	winde	falla	0 dab		tier c	0 onstru	Wind, lightning ction in Strickland,		l G1	adwin. P	smal	1 vaca	ւոէ 1	10115	as was	destr	oved by fire demaged a house
	fire	in Monmo	outh Ce	pter.	1 mil Otho	e Li	ghtni r dam	ng sta ages.	ction in Strickland, rtrd a chicken barn Lightning damage		tr	aller an	á a p	ick-u	Car	per	ovor-	turne	d near Plint.
	about	10% of	total.	1						Minnesota		A60				0	3		Lightning
Maryland				1			١.		114-1-14-1-1	Winona 10S, Winona County	Li	Afternoon & Evenia	ruck a	ınd kill	led a	fars	er dri	ing to	his cattle 10 mile
Central portion(in- cluding Hay area)		ate afte vening	et noon:		٥	l°	4	°	Wind, lightning		so	uth of Wit 1,2 miles	ioha la	ite afti	erhoo	ոխոժ	Hille	9 be	ef cattle in the woo
	1 2 00 1	ning ut	rikas.	JA har	กก่กลอ	ri Cli	nton v	rais set	gusty winds and afire by lightning	Statewide	20	Evening	1		10	-	5	5	Winds, Rain, Hai
	1 17		ine no	abr SA.	non.	Wind	tand 1	16htn1	ing damage was also ing the Cambridge are	1 (	i	Early Morning	Francis	1 thus			1		ፍ Lightning nds, hail and light-
State, except Garret	21-								High temperatures	-	ni He	ng moved :	cross 2 to	the St	ate I s in	ath c	n 20th eveni	ande ne in	arly on the 21st. the Moorhead-Detroi
County area	26					].	]		manahad toro the		La	kes area isses were	ippas:	baseme sible d	nt fl	ocdir deep	ig. Se Plater	veral for s	main highway under- hort periods. Stron
	1.001.1			lite or	nhari	*****	dove:	5. mm 1	reached into the stations reported and days within the		9:	nds; in t Oupm dama	he Peri	nah-Ben veral b	edict uildi	-Jen) ings,	kins ar boats	ea bet and br	ween 7:30pm to owe off many trees
1	1	od. Mar	yland'	rlate	Septe	ember 30 una	matel	or s	A power energency		tv	reen 1:15a	n and	1;30am	and i	in Nas	namingo	about	est of Mapleton be- 2:45am. Some across the State.
į.	depris								r electricity.	11	1 -							tion-	adrose the State

	7	,	r		NO.	OF	ESTIMA	TEDT				ӈ	E		NO.		ESTIMA		
	1	OCAI	PATH	¥.	PER		DAM	AGE	CHARACTER		1	0 Loc	F PATH	PATH S)	PERS	ONS	DAW	NGE	CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	אוררבס	INJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	Xורנם	INJURED	PROPERTY	CROPS	OF STORM
Minnesota (continued	<u> </u>		L	 	 					Missouri (continued)	1							- 1	
	ning 8:30	pm, kille	∄ 5 he	ad of c	attle	unde	r a tr	ee abq	th of Solway about ut 7 miles east-	( 	A fa	st-moving	squali	line d S miles	ross -per	d the	Kans at th	s City Kansa	Metropolitan area g City Inter-
l l		heast of 10:30pm	Vaseca 1/2		ama 0	nd da O	maged 3	a home D	in New Trier. Tornado		Muni	cipal Airt	ort. [	Wind 21	ists v	rere f	scma.	ed to	s City Inter- s-per-hour at the 70-miles-per-hour
St Ionis County				1 1		-		down	briefly breaking		in t	ne Ruskin el cloud :	Hoight	e area	at 11	1:45	'.M.,	nth an	unconfirmed
	dowr	trees in	a nar	he sout	n and ivest	caus and	ed dam northe	age to ast of	the touchdown	Norborne, Carrollton		Midnight	1				3	į	Thunderstorm
Ī	area	showed e	videnc	of a	stron	g win	d or t	ornadd	aloft.	Carroll County	,	to 12:30							Winds
	iont!		1		0	Ú	0	6	Strong Winds		A th	understor	cause	d com	dera	le t	ree an	l power	line damage in
Ī	Stro	ng winds period cu	off ar	d on du Wild ri	ring ce ha	the m	onth a short	nd esp . Thi	ecially early in s is because the		Norb	orne block ty Fair w	ting ma	ny str	estep.	In	arrol	Lton,	he tents for the
	wild wind	rice see s. Estim	d shat	ters or	fall vere	s off varia	durir ble bi	g per-	ds of strong \$1,000,000.	Mexico area, Audrain	l		1				3	} }	Thunderstorm
				ĺ						County	1								Winds and Funnel Aloft
Mississippi ississippi Sound	6	11:45 a.	ĺ						Waterspout		Thur	derstorm	inds o	stimat	da to	70_m	iles-p	or-hou	caused consider-
				near Pe	tit:	015	sland	(lat	30,2° N,		funr	al cloud	dloft 1	as rep	drted	by t	he pub	lic 15	ico. A possible miles northeast o
		. 88.L° W	1	1		1					1	mbia movi	ing com	rds Me	2000	1740	THIT CO	B SELT	
1		11:05 a.		J		<u> </u>			Waterspout	Fulton, Callaway County	7	3:00 PM	]		]		<u>.</u> .	۱ <sub>-</sub> . i	Furnel Aloft
1	nout	h of Stan	dard 0	Mil and	Cosst	dl Ch	èmica]	\$ (lat	ree waterspouts		sout	hnel clou h of Fult	d alof	was s souri.	ighte	d by	Stat	e Patro	l Trooper just
		le radar.		16 GT 827	ated	ana	uter	No Ne	re tracked by	Kingdom City, 31 W	7	3:20 PK		ļ			3		Tornado
awrence County	24	1130 р.	?	7	0	0	0	0	Tornado	Callaway County	A st	all terna	do dip	ed dow	n bri	driy	to des	roy a	equipment shed
	Abor	12 SE H	dntice	110, (1	at. 3	1.5	l, lor	89.	W), between		Hut	ton Totally	hange.	od a b	acn o	n a :	arm 1/	MILLE	south of I-70-
	fun	nal cloud	and Ca	ed down	in mi	dele.	ot ob	u Liej	roman reported d. No damage	Southeast Stoddard	9	Mid-		1			3		Thunderstorm Vinds
		12:10 &							Waterspout	County		afternoc	1	domoori			Toe see	eouth	set Stoddard
ackson County	25		1	4 5 11 05	Page	d gout	(32	30.1	N, long. 88.7" W).										n of another.
	It.	erspout re	nort	hyard.	,as	Agou.	,	ر	1, 1, 10.16. 001, 11,	Willow Brook Agency area, Buchanan	9	3:30- 3:35 2M	1						Funnel Aloft
Missouri								1		County		1	10 2301	t was r	atonte	ad bur	the H	olman.	atrol in the
Holden, Johnson County	5	4:03 PM		1					Tornado		W12	low Brook	ares (	8 sout?	ofs	3∜. Jo	seph)	and fi	e rimites later
	A e	mall torn -NNE path	ado ce after	uded min	ndrd ng do	mpago VII 5-	on tw 1/1₁ mi	o ferm les so	s along a 1/2 mile with of Kingsville, f the Rock Island	Kansas City,	9	4:00-	-	]	T		3		Thunderstorm
	1/L Rai	nile wes Iroad tra	t of F cks∙	lighway 1 A funne	r  and 1  alo	1/2 f , a	mile s pparen	outh o	f the Rock Island spciated with this sping over Highway	Johnson County	1	h: 30 PM		}		İ		1	Winds
	58 58	e tornado halfway b	, was	eighted Vegnil i	d sh ille	ort t and H	ihe la olden	ter pa before	sping over Highway dissipating.		Thu lim	nderstorm	winds er line	damage	ted to	:  60-7 the ea	o mi's estern	s-per-	our caused tree theastern section
South Johnson County	2	5:00 PM				1	3		Thunderstorm		of	the Kansas	s City	Metropo	olitar	area	1	1	
	L					_	1	1.	Winds	Independence, Jackson County	9	4:30 PM	- [	-	ļ				Furmel Aloft
	lin	a narrow	swath	across	Misso	uri H	irhway	13 ne	ebs and hedgerows ar Highway 2 (12		A f	unnel clor a of Indep	ud alof pendend	t was :	repor	ted o	rde the	Highw	ay 40-Nolan Road
	tra	affic.thre	e hou	ra Loc	al ar	eá re	sident	s felt	rtially closed to that the damage not be confirmed.	Humphreys,	9	About					4		Tornado
Alma, Lafayette	1	5:10 PM		JOEL	OFFIRE	but	hira	Comu	Funnel Alort	Sullivan County		5:30 PM						· · · · · ·	and 2-1/2 miles
County	1	1	1	nfil movi	ne no	rihes	at was	repor	tod over Alma,	1	eas	t of Hump	hrevs.	The o	сспра	nts s	mght .	shelter	in the bascment dhing funnel clou
		spuri by									Bui	ldings we	re alac	damar	edl on	four	flarms	from a	point 1-1/h mile ighway 6. This
Southwest Masouri	3	2:30 - 4:30 PM	.			2	1,		Thunderstorn Winds, Hall		wir	nd damage	was all	parentl	y due	to s	traigh	t thunc	erstorm winds.
	Sen	mre thund	laretor	rms with	dama	ging	v nds	and so	me hail swept	Marshall, Saline County	9	5:45 PM	1						Thunderstorm Winds
	1 202	tona wilking	edithe.	heavtbee	1 Trees	- Dant	ral Pr	rton C	omby across Dada		l um:	nderstorm	wind	guats t	o 50 :	miles	-per-h	our wer	reported at
	tie der	es. Damag	e cons	sidted m	ainly from	of v Poat	proote o mart	d tree	nuth Wright Coun- s and power line e except for some		Paz	etall.							
	11-1	inch stone	s at I	Pleasant	Hope	· init	Souri	in sou	thern Polk County d by glass cuts when Mountain Grove in	Rolla, Phelps County	9	8:45 FM	ŀ						Funnel Aloft
	a t Wr	irbo fell Lght Count	y abou	it 11:00	er or PM.	H1gh	way 95	mear.	mountain Grove in	11	1	unel aloft	1	ported	i Myrt	he Mi	esouri	Highwa	1
Barton, Jasper, Newton Counties	3	6:30 - 9:00 PM	:				5		Thunderstorm Wind Hail	South St. Louis,	9	9:55 PM	1	Cana -	l ghat	tomo	tree	limb s	Thunderstorm Winds  nd power line
	Ser	vere thund	ierstor	rms with	udtor	gring al dr	י ריבונאו היבונאו	and ha	il caused widespread er and Newton Coun-	11	dar	mage in the	e gout	hern se	ction	rs of	St. L	nuis.	Power outages af-
	111	cht aircra	ift we	re Klipp	ed ov	er at	0:10	P.M.	er and Newton Coun- 6130 p.m. and two North Barton County	Raytown, Jackson	10	1.	- }		1	1		1	Hail
	re	celved its	s deco with t	nd onsia	ugiit mn 1	of s	evere	thunder einten	rstorms of the day	County	12/1	nch hai		roport	,d.			-	1
	an	d garage t	were d	estroyed ral. Fo	idt (	3:00 l	ere d	n High estroye	ray K, 3-1/2 miles	Independence,	10	1.	1						Hail
	og i	ints north	h and	northeas	st of	Lama:	r, in	the In	in and Milford areas	Jackson County		to 1-1/2 i	i	11 fe11	Lih 3	Lindaps	ndance		
St. Joseph, Buchana	i	1 .	1	1		1	14		Thunderstorm	Lake Porme de Terre						1	4		Thunderstorm
County			1.	_	].			]	Winds	Hickory County				1					Winds
	at	the airp	ort at	, 19:35 1	Р.Н.,	caus	ed con	sideral	s-per-hour recorded		pa:	rk on the	Lindle	y Arm o	of [al	kes Pon	me de	Terro	or a car at a tra west of Urbana.
	li Wh	no damago en winds l	in St blow i	n s wind	n. T.	nejin t his	jured home.	man su	ffered glass cuts		oc.	cupant of	the tr						njuries.
Kansas City area	3			1					Thunderstorm	Mexico, Audrain County	23	. [	-						Hail
1		12:00	171	1	1	1	1	1	Winds	11	Go	lf ball s	ize hai	1 ko11	in t	he Mea	cido a:	rea.	1

																			SEPTEMBER 1970
		ocat.	PATH	Ħ.	NO. PER	OF SONS	ESTIM. DAM					OCAL.	РАТН	¥.		OF SONS	ESTIM. DAM	ATED! AGE	CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LEYGTH OF I	WIDTH OF PATH (YARDS)	מוררפס	INJURED	PROFERTY	CROPS	OF STORM
Missouri (continued	i) 23	Night					3		Thunderstorm	Nevada			None	Report	ed				
Franklin County									Winds	New Hampshire	١,	g o 11			,	0		2	Hed? ode.)
	win	John suld ca.	used o	ther mi:	nor a	tructi	ral t	ree an	ew out a picture i power line damage	North and central	l Hai	7-9 AH 1 fell in	vario	s local		J	3 ususl	i i	Hail, wind uch low concurrent
-	"	the south	dage o	WEBILL	ngcon	Fils	ourı.				inov	ning temp Kinsman N	ratur tch, l	s, gene	erall cumul	y onl	y near Lo 👌 i	the 4 nch de	)'s. At Lost River op with stones to
Montana Flathead and Lake							_			State	1	Evening	mete	. Segt	tere 0	0	age Ir	0m 100	ally severe wind.
Countles	12 St.	1	riv wi	nds caus	O sed by	arci	ic al	O apil	Strong wind		1	ttered li	htnin,	damage	1		1	1 1	vas set afire.
	Col	tinental ( e about 8	lvide p.m.,	increas continu	sed to	desi ntil	ructly the ma	e spe	ing over the ds on Flathead of the 13th.	Keene area	22	4:30 PM			c	0	4	0	Wind, lightning
	fa	·ge waves (	the i	yea aoci yest sid	es, oc de of	the	ake.	na or	er boating -six boats were		Wir	d smashed	two a	rcraft	at t	be Ke	ene ai	port,	the west-northwest where a velccity
Nebraska				,			,				fir	st in one	direc	ion, tì	hen a	hothe	r. Mai	hy tre	whipping trees as were broken, ging utility lines.
Pierce County	6	6:50p		- in one	0	0	0	o	Tornado		hon	es, and c ne, Surry	rs.	he wor	t da nzvy	nage tho	vas in ugh We	the e	ging utility lines astern part of Land, Marlborough amaged homes,
Dawson County	20	5p	?	?	0	0	Į.		Hail, wind		uti	flities an	tree	, accou	ųntin	g for	about	10% o	the storm damage.
	but	and wind was beavi ged from 1,	ent in	the Cor	ad ar	dea.	Stone	l			inc	h accumul	iting:	in about	15	фinut	ts. T	ho thu	with from ½ to 1 nderstorm cell, reat height, around
•	to 1	vo-inch de	ebth ii	center	of	tora	A f	w she	8	New Jersey	10	miles, ch	racte	istic o	of ve	y se	vere s	torms	or tornadoes.
Howard County	20	7:07p		-	0	0	0	0	Funnel cloud	Statewide	27	mid-day					4		High winds.
Madison County	20	8:30p	?	(*   <sub>2</sub>	0	0	0	0	Hail		A o	old front	pas:	age ac:	D85	the S	ate la	te in	the morning cattered areas.
	Thr	olu.	inch	hail rep	orte	5 m1	les w	st of		1	Son	o damagin mouth and	wind Ocean	Countie	por	ted i	d Union	in Cap	er, Middlesex, e Hay County, r hour over a felled by the
Eastern Nebraska	25 Thu	la - 3a	140		O Fr had	O LL and	lı occa		Hail, wind		nat	row strip	with	damage	roo	s an	d some	trees	felled by the
	str	ng winds l	broke (	out a or	to son	line e	rtend	ng fr urt	1	New Mexico								ļ.	1
	- <b>200</b> 8	ity. The ly by smal dimmeter	LL hei	lstrnez	rang	ing fr	on 1/	to "	1 1	Albuquerque	Ing		ick wat	er towe	or and			o grou	inghtning nd injuring man
	The	rted at S licaviest	chuyle: iamage	r ind u semed	to b	at in i	Bellw ortow	od. stern		Albuquerque	1	њу. 14:30 р.				1	3	0	Lightning
	dam	der County age from a 1 River, O	hatter.	ing. A	rtas l	having	hul	inclu	ded	Amagaergas	I.1.8	trding st			inju	red w	onan ir		
•	Str	rsburg, O	sceola	Silvo	Cre	ek, Be	11700	•	1	Roswell	16 Two	11:45 a.	louds (	paserved	ove	Ros	well I	hustri	Funnels aloft al Air Center
Red Willow, Haves Furnas Cos.	1	Early pa	LUR	5*	0.	0	lı.	5	Hail, damaging winds		fai	led to rea	ch the	ground	1				
	hai.	Bartley Latones ac	compat.	iled by 1	hligh 1	dinds	sever	έly		New York	4	late					L	•	Wind
l and an	som	e areas.	Baildi	eg and	tree	demag	from	the				2.M.					1		ĺ
Frontier County	3	6:30p	-1 000		0	0	0	0	Two funnel clouds		aud aud	ahoreline	insta	llation	per 15 al porin	ngur ong L za an	caused ake Eri d drift	namage La. Ne Lad nor	to boats, marinas ar Silver Creek thuard on Lake,
Phelps County	3	6130-	8	6=	0		1	5	Hall.		req	diring mud e beach e	h effor	et Van	Bure:	n Pol	mpat 13	Lfts so ar Duni	hahed and consider drk. Harbor facil
	Sto	7:15p mes mostly mietely co	Phonod .	diamete	with	8030	up t	13,"			boy	were mad	benco.	, but re	весцо	di, on	break	water 1	rea as two young all. Scattered communities near
	bui	damage fi iding dama	ge from	ul and o	consider St.	derab	e tra	bna bered		1.	lak	shore.							
South Central to	6 6	3:30 to	centra	portio	on of	the	ounty		1	Chautanque County	8-	night						14	Rain
Northeast Nebraska	Sev	7 pm	200	a accom	0 Panie	5 by 1	6 ndesp	5	Damaging winds, hail		Kay	ville and	<b>ने सम</b> क्ष	town are	o ese	£ sou	Limest	ern Chu	Westfield, Ripley
	dens	iging wind	8 (92 i 11. mov	MPH mean ad north	spred Spasti	at K	CTOLB	and	da .		4.2	inches,	third	heavier	s¢ żl.	-bour	total	in 70	petfield measured years of record. poil erosion and
	The	raska. Wil re were rep the prince	ports :	cracati	bred was :	isol:	ted di	inage.			wat	out of p	les.	Deep wa	plaz	and d as, f	obris   iclds	blocked and lo	i some highways as
	mati	ıė. One ei	hatre	hear O	nt hani	******* 4	n Dear	inn			lie		r sect	tions of	Cou	nty 2	nd adm	or cir	s and fallen tree datage to two
	inte	ty about orn Oustai southeast	tern G	ir ield	Count Count and he	valle Valle	irect:	on-wi	6 6	Madison, Onondaga	10	after-				1	5		Wind
	wit!	the torm	do ob	prved i	d on	reigi star	ton an	d		and Oswego Counties	91.0	noon	of m	to 20 -	)h.	ern=-	d area	netw-	mage to trees,
	5011 5011	near Brea hera Rock hwest to :	ount;	orosi	e Cot ed Ho esed	nty, at Co saste	eross enty :	rom d Com	ty		bar Vil	ns and ut: lage of C	Lity :	Lines or	ver t ison	hroe- Count	county y, esp	area epiall	of central New York y hard hit as mum-
	and sto	apparently was by f	ar the	on int	So Son	th De	kota. dama	This			poy	us trees l or due to	oken brokei	r topp	pled Ro	and a of of	colle	commu	dty lost electric
}	10 1	three and dles wide third begi	and 10	) miles	long	in )	obrasi	a	Į.		car	when veh	iele a	anhed l	or fe	len our c	tree a	nd pow	on trapped in er lines downed by on edge of Casen-
	in l	urnes Cour ney into s	aty and	Buffal	past lo Gos	Holds	egs at	d were			Othe	maka cou	aby au	a the Pi	OT SPEX	71 IV	ncroo w	DEL ALL	on edge of Casen- a ind Pospey areas ar areas of Osseg
	dend	dted, far Mished, tl	opusan	ings de	etro:	ed, i iks i	raile: Lown a	house,	de.	Saratoga County	22	3 p.m.	PATRE	4000111	1000	1	}	VIEN.	
	Idv	ties occur stock los	ps att	ributed	to 1	12.1i	g tree	s and	buildings.		710	lent thun	derato	ra, las	ting	leas	than 5	i stm	Wind tes, brought heavy
See reference n	otes	at end o	f tab	le.				-			tor	mled in c	itv: r	to dity abultin	of S	demak	per Spr	ings.	Kany large trees
										1									go tree fell on by falling trees.

	,						,			r									SEMPTEMBER 1970
		OCAL	PATH	TTY (		OF SONS		ATED!	CHARACTER			OCAL	РАТН	Атн )		OF SONS	ESTIM. DAM		CHARACTER
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILE 3)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDAND	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
New York (continue		age at ne	arby S	aratoga	Lake	heav	div da	paged	by toppled trees.	Ohio	3	0.15-					3		Townsdo
	Tran	acumtour	store	B had w	Indow	ris 6:166	inhed a	nd si	ns blown down.	Utica Area, Knox County	l I	8:15p ornado m						st in	Tornado flicted minor
	rece	rded temp	eratur	e drop	i Go from	ppera BU to	71 OF	cather in le	observer in city		dam sid	ge to 3 of a g	Utic arage	buil Law	ding n fu	s. rnit	A 2x4 ure w	was is sc	driven into the attered over a
	Ole	s Falls,	eome 2	miles	to t	ne no	rth.	TIRUCE	ing reported in		lar	ge area.	Res	idents s of	rep ligh	brte tnin	d the	stor ne th	flicted minor driven into the attered over a hit suddenly under and then
Buffalo, Erie County	l	7 p. w.			1	!			Wind	Circleville Area,	3	aring s 8:30p	3	100	8	ı	14		Tornado
	18-1	ng evenin oot motor anions we	g thun boat 1 re res	derstor n Buffa cued.	a act lo ha	ivity rbor.	a gue One	t of a	ind capaized an	Pickaway County		-						-4.4	
Lavittown, Massau County	27	11:10	١.	50-100	0	0	5		Tornado		ab	ann abou ed towar	t 4 m	iles n	orth	of	Circl	stat vill	ion building and e. The storm
_	Two	wing of	partm	nt com	plex	pnroo	ded.	weaken	ing of rest of	Medina Area, Medina County	3	10:30p	Short	larrow	0	0	3		Tornado
	9251	wara, cen	011 <i>8</i> 01	DZ ZATAK	øn. d:	D DA CA	d gava	rol ho	ster continued ass and downed		A t	prnado t	cuche	i grou	nd b	rief	ly on	Wedg	ewood Road kill-
	incr	ed rotati	g act	on of a	ind.	Res	idents torn	in ap	ed trees definitaly artment reported		tre	es and u	psett.	ing he	avy	Farm	equi	pment	e, uprooting Residents
Massau and Suffolk		Midday		İ	ĺ	3	5	3	Wind, hail		sto	rm passe	no1se	compa	Lapi	e to	that	or a	train as the
Counties	lii nd	n of 65 +	70 -	h. rab.	H				m Yours and west	Scattered Area, Entire State	В	After- noon			3	1	5		Electrical, wind, rain and
	torn	ago apona	So:	e 30 au	g pas:	Priv	or app	arant rolene	squall line (see		Sa	evening	1				n+c-1	.+	hail
	land	ing at ai	port	AS OVE	turn	ed by	r Farm	ingdal and th	e. Another plane		tio	ns throu	ghout	the s	tate kill	L	ightn	ing a	ettered loca- companied the s in the Cleve-
	knot	o. Restar	rant :	la Parmi	ingda	le an	à stor	e at K	ds resided 60 errick unroofed. Objects as well		lan dis	l area a rupted	nd on in se	e in C veral	plum area	bus.	Uti Flash	floo	pervices were Swere reported
	Bas h	all of go: t Northpon	t, Com	size re mack, S	iporte juitht	ed in	Suffo and Set	lk Cou lauket	mty communities of Wide areas of		fel	Utica an 1. Rain	d Zan Fall	exceed	e wh	1.5	more inche	than wer	B-inches of rai: e especially i line. Light-
	bot	n counties	were	affecte	d by	power	r Zailı	res.			nin	s set fi	res w	ere co	amon		CINC	Limat	i iine. Dignt-
North Carolina abarrus, Roman,	1	11pm-					4		Wind	Rural Dale Area, Huskingum County	8	6:00p	Short	Harrow	0	0	5		Tornado
tanley Counties	!	midn't									Sev	eral are	a res	idents	saw	a f	unnel	clou	l and heard a demolished 3
	· lame	s blown d ged near Richfiel	old H	ower ou	t. H	ome, barn	nobile	hone	and outbuildings buildings destroyed		bar	ns and p	artia	lly ri	pped	roc	fs fr	om 3	homes.
atawba, Durham, Guil-	4	Aftn &	. :	-			4	0	Electrical, wind	Unity, Columbiana County	15	4:15p			1				Electrical
ord, Montgozery, Pitt Counties	i	evening thing kil	ed fo	ur catt	le in	Cata	rioa: h	urned	a home in Kont-		A m	an stepp and was	ed fr	omap ck bv	iece a bo	of	equip	ment htnir	onto the road-
- -	gome in (	my; cause milford,	d powe trecki	r failu ng power	res i I lin	Dur	ham. Emolis	Wind to	a home in Mont- lew down trees carports in Pitt.	Avon, Lorain County	18	10:40a	0.3	}	0	2	4		Tornado
cDowell County	19	1					4	1	Electrical		A s	mall tor	nado	noved.	east	nor	theas	t, bl	owing two
	Hom	at Dysar	svill	struc	k by	sht	hing,	purnec			per	sons off shing gl	a tr	actor	ripp	ing	the r	of o	ff a barn and
North Dakota										Northern Ohio	22	After-			0	1	?		Wind, electri- cal, rain, and
Romsey and Cavalier County	5 Sto	3:00 p.	in nor	*6 cheastw	o rd d	0 Trect	tion wi	th str	Hail and wind	-			١.						hail
	incl	as of rai	oath f	royed	t le	to L	barns	, and	ong winds pounded roduced 2 1/2 to 3 smashed hundreds of		cam	erous th age to b thern th	ήιται	ngs, t	rees	, an	scat d uti	tered lity	local wind lines over the
Pembina County	5	8:00 p.	40	?	0	0	3		Hail and wind	Scattered Areas	23	After-			2	0	5		  Electrical,
	nor	h-south 1	ine th	rough c	bunty	pef	or e mov	fing in	poted trees in to Manitoba. Hail- 1 9:15 p.			noon		İ					wind, rain, and hail
Logan and McIntosh	-6	5:00 p.	35	*2			5	î	Wind and hail		you	th, were	stru	¢k and	kil	.led	by li	khtni	a Zanesville
County	Ven	duria. Tr	ees in	Beaver	Lake	Sta	de Parl	were	d to just west of stripped of leaves turned by the high		sou	fires w  theast a	ere e	specia Hail	lly was	hume	rous orted	in no	rtheast and everal locations
	win dam	s and one	campe on ca	r was b pins an	ig pro	into ka w	lake. indows	Hail as we	at Beaver Lake	Medina Area,	24	fancock 6:52p	and P	utnam	Coun	ries			Funnel aloft
	sea whe	gulls and e, late s	coots	and cu	ting 1ds	and were	bruis:	ng so	hail and severe	Medina County									rumer arort
outheast corner	dam.	ge to bui	1	9 Yas ca	O	0 W	ino and	?		Northeast Ohio	24	Evening			0	0	?		Electrical and vind
		re storm	mich					onang	winds, lightning in Dickey County		Lig	ntning a	nd wi	nd ass	ocia er o	ted	with	scatt umerc	ered thunder-
	Min	esota abo	pt 2 n	iles so	uth c	F Fau	rgo. I	rief	h before moving into tornado touchdowns		and	some da	nage	o bui	ldin	gs i	n nor	heas	is small fires,
	End	rlin, and	2 mi3	es sout	h of	Farg	d. La	ire i	ear Lisbon, at as hiv by 4.26 liated trees and	Wiegels Corner Area, Eric County	26	2:15p	0.5	33	0	0	3		Tornado
	shr.	ubs. A hi	gh hip a la:	-roofed ge hole	barn push	5 m.	iles no	rth a	nd 8 miles west of when high winds										d ground and
	gro	ind and da	shed i	t into	the b	ern :	roof.	At En	ble garage off the erlin tornsdic d trees like ten-		in	ed east the door ground	of a	junk	bus	of Ti	ecs :	ere t	od was driven wisted out of
	pin:	but caus	ing or	ly isol	lated	prop	erty da	age.	Lightning started in Enderlin.	Orange Area,	26	2:45p	i	Harrov	0	0	30	С	Tornado
inley	6	10:30 p.			0	0	4	:	Wind	Coshocton County									
		r warm ar ey area.	a sult	ky day	Storm	dow	ned 3 1	arns	and some trees in		it	into a r	earby	corni	ielo	<b>4.</b> #	car	that	ge and carried was in the rage's new
E Fullerton	20 Hail	6:00 p. measured	by co	pperati	re ob	serve	r fell	in v	Hail cinity of		loc	ation. demolis	Roofi ned.	ng was	blo	wn of	ff a	barn was 1	and a small she eveled.
and the second second	coop	erative w	pather	statio	r wit	h din	mension	p of :	5 x 5.9 x 0.5	1 .	1	1	l	l	1	1	1	i ¯	i

	-	——	,							<u></u>					,	,			SEPTEMBER 19
	1	CAL	PATH	H	NO. PERS		ESTINU DAM					CAL	РАТН	Ŧ		. OF SONS	ESTIMA DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INSURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I (MILES)	WIDTH OF PATH (YARDS)	צוררם	IMJURED	PROPERTY	Clops	CHARACTER OF STORM
Ohio (continued) Akron Area, Portage County	26	3:30- 4:00p							Funnel aloft	Oklahoma (continued South of Quapaw, Ottawa County	i) 8	12:25a.					,		Furnel aloft
	and	3 miles	sout	h of K	ent.	fts Th	over e fun	Bucht nels	el High School moved in a	500 Folloster, Holntosh County	8	k thip,							Punnel aloft
North Central and	- 1	heaster After-	ly di	rectio	n. 0		7		Wind	Z 1/2 NW Collinsville, Tules County	9	6140р,			1	0	0	0	läghtning
Northeast		noon	tered	+hund				acco	mpanied by	rutes county	A wor	an sae ki tura.	lled b	y light	gata	hil	leadi	ng a s	hetland pony in
	stro	ng wind s, and	s whi	ch did	100	al d	amage	to u	tility lines,	Claremore, Rogers County	9	7115p.		1320 20-25 M	0	0	t Clare		Mind eaving extensive
Oklahoma Tahlequah, Cherokee County		2130a 3130a.	1	1	o	o	3	0	Wind, rain		dame.	e in the west to t	busine	es dist	rict.	7704	etora	MI :	oving from the Tornado
	Stron	g wind as	d hear	y rain	8300	peni	d a 1	ne of	thunderstorms that	Closulges County		11:004.				-	Ì		
	minor	al trees damage	Mete (	proote	and	roof	of s	roral	ty damagn, although homes received all measured 5.52		inge. Lown	nado cut Treas w d.	re up	rected,	wind	ove b	Josep d	ing ho ut, an	mes and outbuild- d utility lines
Vici, Dewey County		4:00p 5:00p.	1	,	0	٥	3	0	Wind, hall	Hear Huskoges, Huskogee County	22	Early Pome	*200	75	o	9	4	0	Hind
	Winds Haile dame	tones, m	d at !	o MPH o	1 11	i ≡in ich i	r dan 1 dien	ege to	several buildings. caused no reported		carr roof trai	ed it abo damage to ar site.	at 50 a ama Anoth	Fort an 11 from or trai	dux hou ler b	ped 50 pues	t upai feet in the	te dos souths	railer house, h. There was som ast of the origin was moved about
South of Leedey, Demoy County		5:40p 5:50p.	20	•8	0	0	3		Wind, hail	Northeast, Central, and South-Central	22	t, but su Day	taine	i only	o O	daxa 0	1	0	Seavy rains, flas
	diare	, estimat ter. caus rain sors	ed da:	age to	roof	hall , po	er li	me pol	uring 3/4 inch in es, and the cotton	47948	Sere	tal homes	in nor	thwest	Octat	per (	ity ka	d wate	d local flooding r in them a short Lightning Creek
W of Greenfield, Maine County		6:30p. nado. tre	, velin	7 north	to s	o uth.	3 cause	O dana	Tornado ge to buildings en										
cushing area,	a far	n. 7155p			0	0	e	0	Wind, hail,		SH hig	t of water 3, near I water,	acros oco, i	t the h n south ng also	cent ocor	ral C	H 89, klahow wlong	north a, wer los Cr	th-central Calab re stranded in 5 of Ringling, and a also closed by oak in south Tal- has reported as ting in the east rain water causi
Payne County	Two f	9:30p. unnels al	oft w	re rop	rted	in t	e Cus	ing a	2 funnels aloft rea and winds were from the wind.		neg par	ligible in t of Tules 1000 damas	beth coll	areas,	Thre	roof he w	of one	build the	ing in the east rain water causi
3N Welch,	Peas	te hail a	iso f	Narrow	CRU	ed n	dama	6	Tornedo	Just north of Checotal	1	6140pa	Ι.	300	0	0	0	0	Tornedo
Craig County	1 1	- •	1	1		спе	-	and	trens in the area.	Just SE of Checotah,	A (	6152p.	1 .	300 m	1	in a	wooded 0	area.	Tornado
Weleetka, Ckfuskee County		0100p.							furnel aloft	Heintosh County	1	ernado to	i	1		n a	woodec	area.	1
20E Tulsa, Rogers County	1 1	10:15p. mado tou	ched i	own bri	fly	0	0	0	Tornado	Oregon			None	repor	ed				
Tulsa, Tulsa County	3-	Duening, 3rd - Early AM	t	7	0	0	3	1	Wind, hell, lightning	Pacific Pennsylvania			None	report	ed			   	
	Stron	4th g winds,	estin	ted at	60 K	Н, ь	ilete	I	easuring up to	Southwestern Pa.	3	7:27 PH	2	205	0	5	6	O m	Tornado ved through Beav
	recel	h in diec	dama	and se	dere .	ight ia	ing h	it the	area: Troes		Cour	ty and co pern Butl	ntinue:	d castwa may and	arms	trong trong	Count	ern A	legheny County, 7:27 PM a tornad inutes and hop-
Ottawa County	3- 4	5:00p., 3rd - 3100s.,			0	0	4	,	Wind, hall, lightning		scot 2 bu knoc	chea thro is inessas	ulph Moi and ab: and tri	meca, in out 60 i ees upro	ijuri iomes opted	ng 5 exte	erson	s slig Po	tly and damaged er lines were onaca area was
	Stron	4th g winds t	urned	an airp	Ene	upsid	e dow	on t	he ground at Kiami.	Trie & Crawford	8	Evening			0	0	4	ł,	Rain, wind
	occuri	ring 3/4 red 5 mil	nch i	in diame	ter,	rell cau	north	of Pi	Hailstones, cher. Small hail to trees and some		home	s and str	ents w	men stor	n se	wers lines	hroug	necort	the thousands to fle and Millcreek dd down throughou
SE of Boise City,	was s	truck by	AL 313	W A.M.	13.	al. ar	d bur	ed to	the ground.		the VIII Some	erea. Hi lage, in liftooding	gh wat Crawfo was r	6) wis no Gouni experted	repor ty su hear	tos v Camb	seco ere hi sidge	dary hy d pring	comes near Mill owned tree limbs, on Route 408,
Cimarron County		6130p.			0	0	3	0	Mind, 3 funnels sloft	Warren County	The	Early af	ports	1576	ek ca 0	ve-in	in E	ie.	Wind
	Conth	g winds tion. N d. Thre	ine hu	ndred p	ige w	ro w	anderi	ng loc	age to a feedlot se when the storm area.		Lake	winds !!	fited t	he noof 100 ya	rids a	May w	dere i	Was	eraye near Bear cropped in a were scattered
9SE Beaver, Boaver County	A to			Narrow own bri		0 estr	4 oring	0 hree	Tornado barns and a granary,		lns	r a wide a	nea. Solev	A 70-by	–150 f n¥d a	dot b	irn wi g trai	ih abo er wa	dt 20 tor∍ of hay ≰rolled over
NW of Buffalo, Harper County	6	9:30p.	8	1	0	0	4	0	Tornado	Eastern Pa.	1	Afternoo	4		0	0	4	0	Wind, lightning
Dimean and Comancho	1 to 1	nado dam 8:30p.	zed #	veral 1	orne O	and o	ther 4	ntibus 0	ldings. Tornado, wiwi		The	Beralck a	nd Blo	omsburg Nick th	area	is in	Columb	ia Cou	ntv suffered blow blaze in wiring
Stanbane County	A 10	nado touc	Jac 3	om brie	lly i	t Dr	oan,	auain	g heavy damage to Commenche, strong		lout	s de a hom e noom. L	e and lightni	a tree ng stru	wass cka	truck Large	by 11	ghtnir In Eas	during the con during a seri

					<del></del>												- ,		T	SEPTEMBER 1970
			LOCAL	F PATH	PATH (S)	NO. PERS		ESTIMA DAM		CHARACTER	_		LOCAL	S)	PATH 3S)	NO. PERS		ESTIMA DAM		CHARACTER OF
•	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	NJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KHLED	INJURED	PROPERTY	CROPS	STORM
Pennsy	ylvania (contin	ued)				ا					South Dakota (conti	nued	)	 	]				Į	
Lycoming	g County	11	Evening			0	٥	4	0	Electrical	Parkston, Hutchinson	6	7:00 p		ļ	-				Funnels aloft
	j	Hany	trees wer	e dama	ged and	gutt	ers	nd oth	er app	urtenances were	County	Thre	e funnels	aloft	were si	Shted	in	rea a	d 1 o	more may have
	1	sewa}	e systems ble was o	were	out of	comm (	ss lon	due t	o tome	r fallure and the			hed down b	riefly	causin	g sor	e oz	above	ì	· Funnel cloud
Beaver (		ŀ	Late afte	!		0	1	4	0	Lightning, wind	Just N Madison, Lake County	6	8:45 p	.						runnel cloud
Deaver 1		- 1		l	n was I		1						el cloud a	gnivo	to the	north	ensc			Heil
	ŧ.	Beave	c falls a	campe	ir trail	er an	d a d	ar wer	e dama	ghtning and ing a window. In ged by a blown	28NW Huron, Beadle County	20	3:10 p ball size		all but			7150		
		down veh i	tree and le failed	anothe to co	r car w	as da stop	maged on R	when	the di 88 who	iver of the re a tree had circus tent was	0.454.14 0.445	20	3:45 p	naxx a	err oad	110	ашақ	was .	!	Hail
		fall dest	n across royed by h	the hi	ghway. ind. D	Nort	h of was	Sewick estim	ley a ted a	clrcus tent was \$1,200.	Redfield, Spink County			h-11 d	ell for	9015	ral d	dnute	1	o damage was
Butler			Early ove	l		. (	Q	5		Ughtning, rain			rted.	1		3.77				
		A tw	p-story ba	rn wit	h silo	and r	i ik i	ouse a	ttach	d was struck by	1 1/2N Doland, Spink County	20	4:15 p			0	0	0	0	Tornado
		l i gh Vana	ning and igo County	. The	straw	now a	nsulf nd t	g fire	ary w	Emlenton in ore full at the low were also ge to a garage.	,	Funn	el cloud t	ouched	down w	ith r	o da	age r	porte	l.,
		time dest	of the bi	Sarve	a corn or light	ning	cause	d \$25	dama	ge to a garage.	Tennessee									n
		near 25-2		Prop	gri, y use	lige .	1	4	1	ome flash flooding. Lightning	Cocke County	1	ръпъ		74	0	0	4		Electrical, wind
Statewi			ļ	٠, ١	25.1	In R	ldge		l	ery County near			apparent pment. W						a bar	n and some farm
		Norr	istown lie	an to lo	d struct	kja u	tility	pole	PLONU	II PH and at Country Kitchen was	Covington,	2	11:12 p.m	3/4	30	0	0	2	0	Tornado
		scor	thed by 1	ikhtni	nka. On	the -	eventr	g of	the 26	th in Ellwood City, by lightning and	Tipton County		ado touch			fly	at Co	vingto	n Airp	ort. Damage to stimated at \$300.
		caus	ed about :	\$200 d	amages. Hines C	On Orner	the mo	rning lah Co	of thunty.	e 27th a 2 1/2 near Route 863 vas	Southwest	3	ar root a	1	Dy LIBO	0	0	li Li	<u></u>	Heavy rain,
		stru	ck by ligi	htn i ng	. Dama	ge ca 000.	sed I	y the	re ul	ting fire was Beaver County	Journal	1				-				lightning, wind
		l i i ah	ining str	ukka	Home in	Beav	dr Fa	lls at	dut /:	30 PM and in		acco	spanied at	scatt	ered po	ints	by h	avy r	ins,	ise were Lightning, and in at but total ars. Numerous
Erie ar	ea, Erie Co.	Į.	1:18 PH				1	İ		Waterspout		over	southwest	anour	ted to	sever	al ti	ousan tran	doll	rs. Numerous
			1	vas sig	hted 6	hiles	nort	h-nor	thwest	of Erie. Time of		eros	ion to far	m acre	age and s damag	high	ways	High cause	winds	s. Rains caused at Memphis interruptions,
			ion-5 min					! !				and	slight dar	age to	some t	uild	ngs.		ļ .	,
Erie ar	ea, Erie Co.		1:45 PM							Waterspout	Carroll, Henderson and Gibson Counties	ь				0	0	4	4	Thunderstorms
			terspout w tion 7 min		ghted 6	mile:	nort	hwest	of Er	ie. Time of		Soi	erosion	from the	e heavy	rai:	s da	naged	crops	limited areas. and small sections
Puerto	Rico											1	ļ .	1	s. In	1.			l	as disrupted.
San Jua		19	Afternoon	n¦		3	0	0	0	Lightning	Sparta, White County	9	3:50 p.n	1		0	0	] 3	0	Lightning
		Two	girls and	dab	were l	k:11e	by a	ligh H San	tning	bolt which struck while they were	00 NR1 V	-	itning dam	-	or or i	POTET				Funnel cloud.
		tak	ing shelte	fro	m a sev	ere t	hunder	storm	povin	across San Juan	20 NNW Memphis, Shelby County	1	t reporte	j -	3 0300					runner croud.
Barranar	n - Toa Baja		2:30 p.			. 0		4	0	Hail, Heavy Rain	Chattanooga,	18			2 0104		0	Ł.	0	Lightning
Dayamon	i - roa paja	١. ـ		Jaret	Can		L		1.	Date ones	Hamilton County	1		1	m Itahi	1	1		i	v outages.
Ì		cau	sed flash	lood	ing from	n hea	vy raz	ns in	the t	or half area on of Bayamon Baja. Hailstones ni fell along a when only slightly ell in open ains in town	Nashville,		կ։30 թ.m			0	0	5	0	Lightning
		ran	ed in si:	ze fro	m 1/2 to	o l 1 n len	nch in gth.	diam	eter a	nd fell along a	Davidson County	İ	-		fired	1		ł		
		cov	ered and i	the st	ones so ages in	on me volve	lted. d. Ti	The hea	hail f vier r	ell in open ains in town		Dam	e to bui	iding a	ind cont	ents	esti	nsted	at \$50	y warehouse. 0,000.
		flo	oded some	shops	and dar	uged	some	merch	andise	•	Northwest	19				0	0	0	l <sub>4</sub>	Heavy rains
Rhode	e Island			Non	e repo	rted							1	torms	causad	loce	dan	age t	crops	in the bottomlands , Crockett and
South	Carolina				ļ							Lau	derdale Co	ponties	. Af	ew fa	on Hi	pers :	n nyan di subs	tantial water
Anders	on County	2	11:00 p.			0	0	5	0	Thunderstons, lightning	<sub>                                  </sub>	1	age to cor	1	soybean	•				Pour - 3 - 3 and
		Lig	htring str	nick ti	ne main	avit:	yar	05 1	stea	plant near	Hemphis, Shelby County	1	10:35 a.m	1	nel olo		1			Funnel cloud
		100	liamston i	r the	eastern it break	edge	A lot a	emoli	nd Cou	nty. Two huge,	Keith Springs.	25			A47 CT0	- 1			ļ	Lightning
		dam A c	rew of 100	o three	ee sets Con rest	a cc	ghtni power	to t	estor	were destroyed. 00 homes which had	Franklin County		i -	ì	a kili	od fr	atant	טע שוי	n lie	tning struck a
		bea	affected	i in at	oqut. 5±	loure	<b>'</b> {					wir	fence he	was s	anding	near	1	ſ <b>"</b> "		
Gracing	ille County	19	Evening			0	•	5	0	Thunderstorm, high winds	Texas Brazoria County	1	8:30 a							3 funnels aloft
										chaged four mobile	- Control	1.	1 .		l nafa am	[ v=.	ļ ".	htan	,,+h	f Angleton moving
		tine	southwest	idra pi	art of t	the ci	lly of	Green	4111e	The mobile homes A privately owned		nor	thwestware	about	30 mil	es pe	hou	ir.	T	THE STATE OF STATES
İ		mob:	on a dea Lle home w lows were	rajs ove	arturned	but	rio on	was	njur	A few store	10 ESE Brownsville, Cameron County	1	12:30 p						-	Funnel aloft
	Dalasta	""		T		. pt	"1	]			NE Collin County	1	4:15 p	12	Narrow	, ,	0		0	Tornado
Hutchin:	Dakota son, Bon Horme,	6	About			0	1	6	5	Wind		A 1	ornado to	uched e	erth at	lea	at twi	ice in	north	estern Collin
	Charles Kix s		6:30 - 8:00 p									Me3	inty but co	aused 1 outing	ittle o	z no	dama(	ge. I n hit	t stru	ck first near north of
Counties									1	1	1.1	1 - ~-	),,	1 -0		7-33	. ]	-1		T
		Str	ong winds	damag	ed or de	estro	yed n	merou	buil	dings on farms and		Far	mersville	·   The	funnel	trav	eled :	l'rom n	orthwe	st to southeast.
	·	Str in dam	ong winds towns. The ege was ca	damage ne wine	ec or de d caused to tree:	d con	deri	nerou ole c dama	buil rop da ge rep	dings on farms and mage. Extensive orted to utility katon, Wagner and	Rock Itland community,	Fan 1	Night	1	300	travi 0	i	1	orthwe ?	Tornado, funnel aloft

_										•										SEPTEMBER 1970
			AL	РАТН	7.	NO.		ESTIM					Æ	РАТН	_	NO.		ESTIMA		
	PLACE		TIME - LOCAL STANDARD	S) PA	WIDTH OF PATH (YARDS)	PER	SONS	DAM	AGE	CHARACTER			TIME - LOCAL STANDARD	F PA	WIDTH OF PATH (YARDS)	PER	ONO	DAX	NGE .	CHARACTER
ĺ	FLACE		E -	HLE	HOF	e	a	ERTY	٠,	OF STORM	PLACE		- PAG	THO HE	YARD	B	a	ERTY	_	OF STORM
	· i	DATE	STAD	LENGTH OF (MILES)	WIDT	KILLED	INJURED	PROPERTY	CROPS			DATE	STAP	LENGTH OF (MILES)	TOTA P	XILLED	INJURED	PRUPERTY	CRO	]
L	Texas (continued)									ļ	L Touga (continued)			لتا		لت	لــــــا			
1		A to	rnado cut	a path	200 to	300	yard	wide	acros	the southeastern this was about one non Erown place, implement and ing was lifted unel cloud aloft, noise resembling tit did not	Texas (continued)									nningham Elementary
		mile	. The fur	nel de	molishe	d ho	pen	on t	ie Ver	on Erown place,		down		0 Gulf	ton. A	tree	on t	he sch	ool gr	ounds was blown
		feed	shed was	demoli	shed.	The	m, w	of the	build:	implement and ing was lifted	8 SE Corpus Christi,	18	10:50 a							Funnel aloft
		de sc	ribed as h	eing a	whitis	wn at h col	op a	tree.	A fu	nel cloud aloft, noise resembling	Nueces County		i •							
		touc	eight trai n ground.	n, was	sighte	d aho	ut 9	30 p.i	i., hu	it did not	Near Palacios, Matagorda County	19	5:23 p							Funnel aloft
	Near Port Lavaca,	2	?	3.	7	0	0	0	o	Tornado	Lyford, Raymonvdille,	20	7:30 a	?	?	0	0	,	0	Tornado,
	Calhoun County	No d	umage repo	rted.							Willacy County		-							windstorm
ĺ	Hockley County	2	6:00 p-	15	3	0.	0	0	?	Mailstorm		A to	rnado dem	oliahe miles	i a gar	ge a Rav	nd da nondv	magud ille.	a houd	e trailer at may have been the
ļ			7:30 p						ļ	;		BATTA	funnel w	as sig	rted on	Farm	Hoad	140 M	est of	Raymondville.
		stri	o from nor	thwest	of Lev	ellar	ti to	about	5 mile	10 to 15 mile s southeast.		Ray:	ondville.	Appa	rently	the t	brnad	O WAS	noving	in a northwesterly god by high winds.
	:	Doma. perc	ge to cott	on and	grain	sorgi	uns	raried	from a	bout 25 to 70	2 E Longview,	20	4:00 p	7	?	0	0		0.	
	3 W Ropesville,	2	7:25 p-							Funnel aloft	Gregg County	1					1			Tornado
ļ	Hockley County		7:38 p						Ì			Long	view and	destro	yed a b	im.	ane r	TIMEL	I AITH I	we miles east of
-	Near Beaumont, Jefferson County	5	8:45 a							Funnel aloft	15 SE Lytle	20	6:00 p-		-					Funnel aloft
ļ	Near Beaumont,	9	10:38 å-					·		Funnel aloft	Atascosa County		6:30 p				_			
İ	Jefferson County		10:42 a								Near Sulphur Springs, Hopkins County	1	Night			0	0	3	0	Lightning
ļ	Baytown, Harris County	12	11:45 a			1			Ì	Funnel aloft		sta	ted by li	ghtnin	on th	e Mrs	т.	hay w	ere lo idson	et in fire place east of
	Near Beaumont,	12	2:25 p						i .	3 funnels aloft		1	ney road	bear 9	ılphur	Sprin	gs.			_
	Jefferson County									7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 NW Miami, Roberts County	21	7:05 p				ļ	ļ		Funnel aloft
	Houston, Harris County	12	12:30 p			1.	0	0	0	Lightning	Edwards and Real	21-				0	0	5	0	Flooding
	narras ocuroy	Wnc.	Tinds To			ļ.,		,,,,,,,,	<u> </u>		Counties	22								_
	,	park	ing lot of	the 1	orthwe:	t Ma	1 du	ing a	thund	ightning on the		Uppe	er Frio an	<b>d</b> extr	ene upp	er Nu	ece s	Rivers	on th	areas of the
1	S Mission, Hidalgo County	13	5:50 a	Short	Narrow	0.	0	. 0	0	Tomado		the	21st, wit	h amou Wood	nts of and Lea	eix t	o nir Cons	e inch iderab	es in Le flo	a limited area
	midaigo county	A.BE	111 torna	o tou	hed ear	rth a	bout	one-cu	arter	mile south of old		with of	low wate	r cros	ings c	osed the	thro	igh th	afte	rnoon and night est near flood
		U. S	. Highway	183 and	Taylor	Poa	d. I	t move	da~c	ile home about ce, and no injuries.		i eta	din ∩£10bk	to 11	fast m	bood	the r	timer o	boa la	cated nine miles 22nd. Flash
	15 S San Antonio,	13	3:00 p-	1	17	0		3	0	Tornado		LITO	darug ru p	ear co	unty en	<b>1</b> 1n	tae e	astern	part	of Edwards County part of a
	Bexar County		3:02 p	-	''	Ĭ		_		101111111		high	huay bridg	on t	to Nuec	s at	Bark	dale.	Tota	L damage was
		A sm	all torna	do tou	hed dov	n on	the	The	Stutt'	s farm, one mile	Near Calallen,	22	12:05 p	1	ľ					Funnel aloft
		uama	ge was es	ulmated	1 at \$35	,00	The	tomad	o path	was about 50	Nueces County	!	1 .	1	est of	Cala	ian	novine	+ 040	the southwest.
	Laguna Madre,	15	12:00 p			1		0100	1		Donna,	23	10:30 a	ļ .					1	2 funnels aloft
	Nueces County					l	ļ			Waterspout	Hidalgo County	-	100,50	Ì		ĺ				2 Tunners agoit
	6 E Alpine, Brewster County	15	1:55 p					İ		Funnel aloft	Fannett, Jefferson County	23	4:10 р					İ		Funnel alcft
	Lake Sabire,	16	3:55 p-							Several	La Joya,	25	10:34 a							B3 -3 -04
	Jefferson County		4:25 p			1	ŀ			furnels aloft	Hidalgo County		10,54							runnel aloft
	S. Humble, Harris County	16	4:00 р			Ì	Ì		:	Funnel aloft	9 WSW Nederland, Jefferson County	26	12:15 p							Funnel aloft
	Near Wichita Falls,	16	5:20 p				ļ			Funnel aloft	7 N Petrolia,	27	11:00 a	7	?				_	m
-	Wichita County					[					Clay County	1	i	1		ĺ		0	0	Tornado
-	Beaumont, Jefferson County	17	9:40 a			2	0	?	0	Lightning, funnel alort		dam	nado touch age	de est	n prie	1,47	then	e cum	ea to	cloud, No known
		Two	employees	of th	e Banım	ont 5	efine	arv of	Mob43	. 1:	Utah						-			
-		dia	as the r	esult Mohil	of a fi	e th	at er	gulfe	a tar	Dil Corporation k farm in the s saw lightning	Southeast San Juan County	4-6			1	2	?	5	4	Heavy rains and
		str	ke a stor	ege ta	nk in t	he no	rth z	ons of	the	efinery and the ay which extends	Councy		Record b			ļ				flash flooding.
		nor	h and sou	th. A	gray-b	ack	unne	clo	ig qipi	ed down near n about 10:00 a.m.			east par	of ti	e state	late	on	the av	ning,	.
	Orangefield,	17	10:45 a	I une	east 3	"	Line	- inin	1.3631	1	1.00		of the 4	produce	d flash	floo	ds w	lich	l	
	Orange County	'	10.45 a	-						Funnel aloft			destroye	Mr. Mot	tezuna	Prost	d and	Aneth	ļ.	
	5 W Palacios,	17	12:50 p-	1			-	*		Funnel aloft			Thousands Navajo to drove the	nuck ga	rdens.	An A	was rizo	a cou	le	Į  -
.	Matagorda County	1,,	12:56 p										were dro	ned.	Their s	on wa	S WA	ti bedi	to	
-	Noar Prairie View, Waller County	17	2:00 p- 2:30 p				-			Funnel aloft	,		shallow t	red at	Bug Po	int i	inc	nes of n a	rain and	
	Near Cameron,	17	3:00 p	1.		0	. 0	3	0	Lightning			was measi 7 pm on new 12 ar bamage er and brid dollars	ne 5th 11 24 1	of the	prd	n. or t	his is	a e.	
	Milam County	A be	iroom in	he Le	Yates	home	near	Camer	pn was	damaged caught fire.		ļ	Damage en	es, 8	s excee	ped :	65,5 and	over	000,	
ĺ		l	1	1	1	1			g and	[			dollars building	p irr	gation	dite	ies a	d far	1	
ļ	Gouston,	17	Afternoor	Short	Narrot	0	0	?	0	Tornado, windstorm	Near Hill Field	5	6:54 p.				-			funnel cloud
		A sı	all "blui	sh bla	ck" tor	hado	touci	ed do	in nea				A funnel	cloud	was rep	princ	by	pilo	d	
		cf : Far	Couthwest ington, a	Freewa servi	and No.	ion e	tle,	accor ant a	ding to	the intersection a witness, Carl Park and the aged and a nds blew the roof		1	A funnel approach touch the southerly	ing Hi:	l Field	il Ti	e cl ving	dud die in a	not	. 1
		West lar	Loop. 1 e billboa	he ser	vice st	ation down	was The	aligh nders	dly dar	aged and a	2	1	southerly	dire	tion.					
- '	Sec reference	note	e at en	1 of 1	able.							•	• • • •	•	•	•	'	١.		•

																			SEPTEMBER 1970
		CAL.	PATH	Ŧ		OF SONS		ATED!				CAL	РАТИ	Ŧ	NO. PERS		ESTIM. DAM		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF F	WIDTH OF PAT	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	NURED	PROPERTY	CROPS	CHARACTER OF STORM
Vermont		<u> </u>	' 	<u>—</u> І		l	L	<u></u>	<u> </u>	Wisconsin (continued	L		L 	l l		است		ا ا	
Northern		Evening			0	0	4	1	Wind, lightning	Clark County	9.	evening			0	0	Į.	0	Lightning
·	rco	ted and so	me wir	dows bl	bwn 1	n at	South	Burli	e large trees up- gton. Minor Of of storm loss.		puz	ned.	neign	oring :	2748	LEFT CO	iby s	ruck t	y lightning and
Southern		3:30 -							·	Northern Counties	21.	night			ů	5	6		Wind, tail, rain lightning
	Ав	4:30 PM evere thun	derson	all. wi	th hi	O wi	4 nd. b	1	Wind tense rain, and		817	wind and	t hall	danage	TOA	Outri	eva Va	ller S	eason did exten- NE-ward to ander Airport
·	muc	h lightnin > New Hamp	g foll shire,	owed a toward	path Keer	trom	Hanch t Town	ster i	tense rain, and ast-southeastward 0.66 inch of rain night of September scattered damage		oro	ked at 13	5 KPH	at abou	it Sill	5 444 2	Lare	e tald	vision tower vy rain. Hail ed by lightning in
	21-	22, thunde heavy rai	rstorn hfall	s in no tith lo	ther	rile: n Ver otal:	mont o	aused	night of September scattered damage inches.		3/4 Doo:	inch at h	1780 150 m	et Est Pereral	Ligh	re. inin	10 cos	e kill durin	ed by lightning in g night.
U. S. Virgin Íslands				repor						Zau Claire County	21 8kd far	early am pping tor m 3 M Oss	nado m	ointy ving 3	O E de	KH.	3 ed bui Debri	0 Ldings scat	Tornado on Gordon Saith tered over 1/4 mi.
Virginia										Dodge County		0 8028 tr 10:30 p		ge in	5	٥	Ŀ	c	Lightning
Newport News	4 H1:	Aftn h winds d	molia	hed a 1	0	0	4	0	Wind		4 0		d the	r hous Columb	deeze				in fire started
	the	Denbigh urred and	Hall s	hopping	cent	pr.	Some t	‡tnorι	#ility [ailures	Jefferson Co.	25 Int	10:00 p erior of	bone d	a troys	C	0 isht	li n'ang F	o Lre.	Lightning
Roanoke Area	9	Aftn		1	0	0	3	0	Rein	Fond du Lac County	25	11:30 p	ĺ			0	3	0	Lightning
	to	back up i	hto tw	house	. T	nte a ho hi	nd sti gh wat	nete a	and caused revage and many cars to	Menitowoo County	1	2:30 a	ea by	1 garat	O.	0	3		Lightmag
Fairfax County	i	11 creati 3:25 p.m	l	Life Jan	0	0	0	0	Funnel aloft				le in	tuen of	Schl				lightning fire.
· · ·		1		report	d in	the	vicini	Ly of	Fort Belvoir.	Wyoming Rock Springs	,	4130 p.			1	0	0	٥	Lightning
/sapeake Bay	27	About 1 p.m.			0	0	0	0	Waterspouts			n vorker	illed	by lig	1 1	on	Conney		i6 miles southsant
.*.		or three		pouts	cre	ight	ed tear	ang e:	stward 20 miles		31 .	ock Sprin							
Washington									-	* Includes crop C Crop damage.	daea	ge.							
Whole State	10-1						4		Wind	* Niles instead † Storm damages 1 Less than	are		in ca	tegori	es va	ryi	ng fr	om 1 1	to 9 as follows:
	from	10th to 1	kth re	sulted	in de	mage	to ap	rile cr	ak of arctle air op in Okanogen and ibs of eastern	2 \$50 to \$59 3 \$500 to \$5	, ,000			•					
	Wash in e	ington. P	rellair 1200 ce	rloads.	imate	s inc	icate in s	the 1	cas of apples to be calities in the cality to blowing dust.	4 \$5,000 to 5 \$50,000 to 6 \$500,000 to	\$50	0,000							
	Seve west	ral autmon ern Washin	lle ac	cidents strong	Post	ited paste	from	reduce inds i	d visibility. In the Strait of Juan	7 \$5,000,000	to :	\$50,000, \$500,00	000 0,000						
East Central Counties	area	afternoon	1	to se	111 1	Dats 2	in th	Cres	cent Bay and Sekiu Wind										
	Visi ties	bility was	reduc	incoln c	:bun t i	bs.	LOW V	ibibil	ust in some locali-	Note: This publi- due to the diffic it is not all-inc	ulti	es inher	ent i	n coll	ectio	ס מכ	f thi	s typ	e of data,
	were nign	reported	on his	hways i	n the	vici	nity	of Lin	Several accidents d and Ritzville.	ried in the June	and !	December	issu	es of	this	pub	licat	ion.	
West Virginia					! 					SUESCRIPTION PRIC domestic, \$2.00 f able to the Super	orei	gn. Che	cks a	nd non	ey or	rder	oda a	uld b	e made pay-
Weston, Lewis County	LE A 50 UDT	2:45 p.: 9 foot un: 1 (Channel	duppor	ed tel	0 visi	on tr	5 unsmit	or to	Windstorn for of station winderstorn assoc-	ence regarding su Documents, Govern	bscr	iptions	shoul	d be a	ent 1	to ":	Super	inten	dent of
	iato	ed with a	dold f	dontal	nassa	te.	The st	rotati	s located 3 rdles there was heavy rain					11	scos		44-381	1 <b>PV11</b> 1	LE-10/30/70-1275
	and	Locole-ar	and ha	l at ti	he ti	e.													M-10/30/10-12/3
Wisconsin Calumet County	2	evening			0	0	3	0	Wind, hail										
	St:	tong winds	and s	chilt	on ac	combs	hying	thund	rstora conse								* -		
Rook County	111 6	h:45 a htning st	arte x	nor si	0 12	pase 0	3 mont	O C Brac	Lightning										
Konroe County	6 Li	h:57 a htning se timated ne	erely ar #50	dimage	0 tra	0 nsfor	i mer ne	O ar Cai	Lightning inton. Danage	•						•		-	
Grant, Lafayutte and Iowa Counties	9 8en	5:30 p	15 erstor	\$00	0 stro	O WI	5 nds ar	0	Tornado rnado or two										
	Pla	ng line f	rom ju and on	toward	of T	emys eral	on to Point.	the no	orth side of										
	07.	destroyed	iiore.	TO BORE	e and	a en	aron ,	TO 84	verely damaged										
Ciant County	9 To:	6:10 p	10 ng ENE	did sc	diter	O da	li nage 1	O TOM D	Tornado buque area to a								**		•
Lafayotta County	9	7:00 p	7	200	0	0	4	0	ns destroyed.										
•	Tor		n ene	कर करा	stter	d de	ugs 1	TON BO	ath of Hazel Green										
Iowa County	9 17-	6:30 p	lanch	rdv1?1	O you	l h st	O.	0 11at	Lightning ming. Had just										
	fin	ished mill htning str	ing a	d had b	ila h	ind o	a the	#11k c	ooler when										
See reference		e at end		able.	i			1		44 -									